

20 August 2024

To the Editor-in-Chief,

I am writing to submit our manuscript titled "**Medical Image Denoising: A Review and Future Directions**" for consideration for publication in *Virtual Reality & Intelligent Hardware*.

Medical image denoising is crucial for removing noise while preserving essential diagnostic information. Traditional denoising techniques have been widely used but often struggle with complex noise patterns and maintaining fine details in medical images. Recently, deep learning-based methods have emerged as a promising approach, leveraging deep neural networks to understand underlying patterns and effectively remove noise while retaining diagnostic details.

Our manuscript provides a comprehensive review of various types of noise encountered in medical images and evaluates classical denoising techniques. We also examine recent developments in deep learning-based denoising methods and the performance evaluation metrics used. Additionally, we discuss ongoing challenges in medical image denoising and suggest future research directions.

The goal of this review is to offer an in-depth overview of current advancements in medical image denoising, highlight existing challenges, and identify future research opportunities.

We confirm that this manuscript, or any part of its content, is not under consideration elsewhere and has not been published. All authors have reviewed and approved the manuscript and agree with its submission to *Virtual Reality & Intelligent Hardware*.

Given the economic challenges we face in Iran, we kindly request your utmost cooperation and support in the review and publication process of our manuscript. Your assistance in this regard would be greatly appreciated and invaluable to us.

Thank you for considering our submission. We look forward to your feedback and hope for a favorable review.

Sincerely,

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